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In the claims:

This listing of claims will replace all prior versions and listings of claims in the application:

- 1 1-132. (Canceled).
- 1 133. (Original) A device for producing customized audio data, comprising:
- 2 data storage storing an audio data product and
- a hearing profile of a customer for the audio data product; and
- 4 logic to produce a customized audio data product in response to the hearing profile and
- 5 the audio data product.
- 1 134. (Original) The device of claim 133, including:
- 2 an interface by which the customized audio data product is received from a remote site.
- 1 135. (Original) The device of claim 133, including:
- 2 logic to store the customized audio data product on a machine readable medium.
- 1 136. (Original) The device of claim 133, wherein the customized audio data product comprises
- 2 at least a portion of the hearing profile, and the audio data product for transformation according
- 3 to the hearing profile at a remote site.
- 1 137. (Original) The device of claim 133, wherein the customized audio data product comprises
- 2 a transformation according to the hearing profile of the audio data product.
- 1 138. (Original) The device of claim 133, wherein the customized audio data product comprises
- 2 a transformation according to the hearing profile of the audio data product, and a parameter used
- 3 for decoding the transformation.

- 1 139. (Original) The device of claim 133, wherein the customized audio data product comprises
- 2 a transformation according to the hearing profile of the audio data product, and a parameter
- 3 associated with the customer used for decoding the transformation.
- 1 140. (Original) An article of manufacture comprising:
- a data storage medium configured for connection to, and for disconnection from, an audio
- 3 playback device; and
- 4 a customized audio data product stored in the data storage medium, the customized audio
- 5 data product comprising an audio data product customized in response to a hearing profile of a
- 6 customer.
- 1 141. (Original) The article of claim 140, wherein the customized audio data product comprises
- 2 a transformation according to the hearing profile of the audio data product, and a parameter for
- 3 identification of the customer.
- 1 142. (Original) The article of claim 140, wherein the customized audio data product comprises
- 2 at least a portion of the hearing profile, and the audio data product for transformation according
- 3 to the hearing profile.
- 1 143. (Original) The article of claim 140, wherein the customized audio data product comprises
- 2 a transformation according to the hearing profile of the audio data product.
- 1 144. (Original) The article of claim 140, wherein the customized audio data product comprises
- 2 a transformation according to the hearing profile of the audio data product, and a parameter used
- 3 for decoding the transformation.
- 145. (Original) The article of claim 140, wherein the customized audio data product comprises
- 2 a transformation according to the hearing profile of the audio data product, and a parameter
- 3 associated with the customer used for decoding the transformation.

- 1 146. (Original) An audio data playback device comprising:
- 2 a data processor;
- 3 a data storage medium, coupled to the data processor;
- an audio transducer, coupled to the data processor; and
- a customized audio data product stored in the data storage medium, the customized audio
- 6 data product comprising an audio data product customized using a hearing profile of a customer.
- 1 147. (Original) The audio data playback device of claim 146, wherein the audio transducer
- 2 comprises a speaker mounted on a headset.
- 1 148. (Original) The audio data playback device of claim 146, wherein the audio transducer
- 2 comprises stereo speakers mounted on a headset.
- 1 149. (Original) The audio data playback device of claim 146, wherein the customized audio
- 2 data product comprises the audio data product transformed according to the hearing profile, and
- 3 a parameter for identification of the customer.
- 1 150. (Original) The audio data playback device of claim 146, wherein the customized audio
- 2 data product comprises a transformation according to the hearing profile of the audio data
- 3 product, and a parameter associating the customized audio data product with the customer, and
- 4 the data processor includes decoding logic responsive to the parameter for playing the
- 5 customized audio data product.
- 1 151. (Original) The audio data playback device of claim 146, wherein the customized audio
- 2 data product comprises at least a portion of the hearing profile, and the audio data product for
- 3 transformation according to the hearing profile, and the data processor includes decoding logic
- 4 responsive to said at least a portion of the hearing profile for playing the customized audio data
- 5 product.
- 1 152. (Original) An audio testing device comprising:
- 2 a data processor;

- 3 a data storage medium, coupled to the data processor;
- 4 a communication port, coupled to the data processor;
- 5 an audio transducer, coupled to the data processor; and
- at least a portion of a hearing test program stored in the data storage medium, the hearing
- 7 test program comprising routines for execution of a hearing test using the communication port
- 8 and the hearing test program to produce hearing profile data of a customer.
- 1 153. (Original) The audio testing device of claim 152, wherein the communication port
- 2 comprises a port for connection to an external data processing device providing a user interface
- 3 for the hearing test program.
- 1 154. (Original) The audio testing device of claim 152, wherein the audio transducer comprises a
- 2 speaker mounted on a headset.
- 1 155. (Original) The audio testing device of claim 152, wherein the audio transducer comprises
- 2 stereo speakers mounted on a headset.
- 1 156. (Original) The audio testing device of claim 152, including a port adapted to couple a
- 2 removable data storage device to the data processor, and resources for playing an audio data
- 3 product stored in the removable data storage device.
- 1 157. (Original) The audio testing device of claim 152, including a battery, and wherein the data
- 2 processor and audio transducer are coupled to the battery.
- 1 158. (Original) The audio testing device of claim 152, including a headset, and wherein the data
- 2 processor, data storage medium, communication port and audio transducer are mounted on the
- 3 headsct.
- 1 159. (Original) The audio testing device of claim 152, wherein the customer hearing profile
- 2 comprises coefficients of a transfer function to transform an audio data product according a
- 3 hearing characteristic of a customer.

- 1 160. (Original) The audio testing device of claim 152, wherein the customer hearing profile
- 2 comprises an identifier of transfer function to transform an audio data product according a
- 3 hearing characteristic of a customer.
- 1 161. (Original) The audio testing device of claim 152, wherein the customer bearing profile
- 2 comprises an identifier of a transfer function and coefficients of the identified transfer function to
- 3 transform an audio data product according a hearing characteristic of a customer.
- 1 162. (Original) The audio testing device of claim 152, wherein the customer hearing profile
- 2 includes a value indicating listening conditions in which a customized audio data product is to be
- 3 played.
- 1 163. (Original) The audio testing device of claim 152, wherein the customer hearing profile
- 2 includes a value indicating a hearing characteristic of a customer for whom a customized audio
- 3 data product is to be played.
- 1 164. (Original) The audio testing device of claim 152, wherein the customer hearing profile
- 2 includes a specification of psycho-acoustic characteristics of a customer for whom a customized
- 3 audio data product is to be played...
- 1 165. (Original) The audio testing device of claim 152, wherein the customer hearing profile
- 2 includes an audiogram characterizing a customer for whom a customized audio data product is to
- 3 be played.
- 1 166. The audio testing device of claim 152, wherein the customer hearing profile includes
- 2 software defining a transfer function for producing a customized audio data product.
- 1 167. (Original) An audio testing and playback device comprising:
- 2 a data processor;
- 3 data memory coupled to the data processor;
- 4 a communication port, coupled to the data processor;

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- 5 an audio transducer, coupled to the data processor;
- a hearing test program stored in the data memory, the hearing test program comprising
- 7 logic used for execution of a hearing test using the communication port to produce hearing
- 8 profile data for use in production of a hearing profile of a customer; and
- 9 a customized audio data product stored in the data memory, the customized audio data
- 10 product comprising an audio data product customized using the hearing profile.
- 1 168. (Original) The audio testing and playback device of claim 167, wherein the
- 2 communication port comprises a port for connection to an external data processing device
- 3 providing a user interface for the hearing test program.
- 1 169. (Original) The audio testing and playback device of claim 167, wherein the audio
- 2 transducer comprises a speaker mounted on a headset.
- 1 170. (Original) The audio testing and playback device of claim 167, wherein the audio
- 2 transducer comprises stereo speakers mounted on a headset.
- 1 171. (Original) The audio testing and playback device of claim 167, including a port adapted to
- 2 couple a removable data storage device to the data processor, and resources for playing an audio
- 3 data product stored in the removable data storage device.
- 1 172. (Original) The audio testing and playback device of claim 167, including a battery, and
- 2 wherein the data processor and audio transducer are coupled to the battery...
- 1 173. (Original) The audio testing and playback device of claim 167, including a headset, and
- 2 wherein the data processor, data memory, communication port and audio transducer are mounted
- 3 on the headset.

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- 1 174. (Original) A method for conducting a hearing test, comprising:
- 2 providing a headset having stored therein audio test software;

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- coupling the headset to a data processor having a user interface; 3 executing a test using the audio test software and the user interface to develop a hearing 4 5 profile; producing a customized audio data product using the hearing profile; and 6 playing the customized audio data product on the headset. 7 175. (Original) The method of claim 174, including storing the hearing profile on the headset, 1 and wherein the step of producing a customized audio data product comprises processing an 2 audio data product using the hearing profile stored in the headset. 3 176. (Original) The method of claim 174, including storing the hearing profile in a remote site. 1 177. (Original) The method of claim 174, including producing the customized audio data 1 2 product in a remote site. 178. (Original) The method of claim 174, including storing the customized audio data product 1
- on a machine readable medium, and coupling the machine readable medium to the headset. 2
- 179. (Original) The method of claim 174, including storing the customized audio data product 1 on a portable data storage device, and coupling the portable data storage device to the headset. 2
- Ī 180. (Original) An article of manufacture comprising:
- a data storage medium configured for connection to, and for disconnection from, an audio 2 3 playback device; and
- a customer hearing profile stored in the data storage medium, the hearing profile 4 comprising data generated based on hearing characteristics of a particular customer. 5
- 181. (Original) The article of claim 180, wherein the customer hearing profile comprises 1
- coefficients of a transfer function to transform an audio data product according a hearing 2
- characteristic of a customer. 3

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- 1 182. (Original) The article of claim 180, wherein the customer hearing profile comprises an
- 2 identifier of a transfer function to transform an audio data product according a hearing
- 3 characteristic of a customer.
- 1 183. (Original) The article of claim 180, wherein the customer hearing profile comprises an
- 2 identifier of a transfer function and coefficients of the identified transfer function to transform an
- 3 audio data product according a hearing characteristic of a customer.
- 1 184. (Original) The article of claim 180, wherein the customer hearing profile includes a value
- 2 indicating listening conditions in which a customized audio data product is to be played.
- 1 185. (Original) The article of claim 180, wherein the customer hearing profile includes a value
- 2 indicating a hearing characteristic of a customer for whom a customized audio data product is to
- 3 be played.
- 1 186. (Original) The article of claim 180, wherein the customer hearing profile includes a
- 2 specification of psycho-acoustic characteristics of a customer for whom a customized audio data
- 3 product is to be played.
- 1 187. (Original) The article of claim 180, wherein the customer hearing profile includes an
- 2 audiogram characterizing a customer for whom a customized audio data product is to be played.
- 1 188. (Original) The article of claim 180, wherein the customer hearing profile includes software
- 2 defining a transfer function for producing a customized audio data product.

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